JOURNAL OF GERONTOLOGY

VOLUME CONTENTS

VOL. 10 NO. 1-4

1955

Published Quarterly by
THE GERONTOLOGICAL SOCIETY, INC.

JOURNAL OF GERONTOLOGY

Contents of Volume 10

VOLUME 10 JANUARY 1955 NUMBER 1

Section A—Biological Science and Clinical Medicine

PAGE

AMITOTIC DIVISION IN SENILE TISSUES AS A PROBABLE MEANS OF SELF-PRESERVATION OF CELLS ..... *Warren Andrew* 1

WIDTH AND LENGTH OF COLLAGEN FIBRILS DURING THE DEVELOPMENT OF HUMAN SKIN, IN GRANULATION TISSUE AND IN THE SKIN OF ADULT ANIMALS ..... *William G. Banfield* 13

DEHYDROGENASE ACTIVITIES OF HUMAN AORTIC TISSUE DETERMINED WITH THE TRIPHENYL TETRAZOLIUM TECHNIQUE ..... *J. E. Kirk and T. J. S. Laursen* 18

THE PRESENCE OF ACONITASE AND FUMARASE IN HUMAN AORTIC TISSUE ..... *T. J. S. Laursen and J. E. Kirk* 26

AGE CHANGES IN BASAL RESPIRATORY MEASUREMENTS AND METABOLISM IN MALES ..... *Nathan W. Shock and Marvin J. Yiengst* 31

BLOOD VALUES OF WOMEN: CHOLESTEROL ..... *Pearl Swanson, Ruth Leverton, Mary R. Gram, Harriet Roberts, and Isabel Pesek* 41

THE RELATIONSHIP BETWEEN CRITICAL FLICKER FREQUENCY AND CHRONOLOGIC AGE FOR VARYING LEVELS OF STIMULUS BRIGHTNESS ..... *Neil W. Coppinger* 48

ELECTROENCEPHALOGRAPHY AS A DIAGNOSTIC AND PROGNOSTIC AID IN STUDYING THE SENESCENT INDIVIDUAL. A PRELIMINARY REPORT ..... *F. P. Sheridan, C. L. Yeager, W. A. Oliver, and A. Simon* 53

DERANGED CHOLESTEROL METABOLISM AND ITS POSSIBLE RELATIONSHIP TO HUMAN ATHEROSCLEROSIS: A REVIEW ..... *Meyer Friedman, Ray H. Rosenman, and Sanford O. Byers* 60

BOOK REVIEWS 86

Section B—Psychological and Social Sciences, and Social Work and Administration

THE MAINTENANCE OF INTELLECTUAL ABILITY IN GIFTED ADULTS ..... *Nancy Bayley and Melita H. Oden* 91

BOOK REVIEWS 108

Section C—Organization Section and Index to Current Periodical Literature

INDEX TO CURRENT PERIODICAL LITERATURE 113

VOLUME 10 APRIL, 1955 NUMBER 2

Section A—Biological Sciences and Clinical Medicine

THE PROPERTIES AND DISTRIBUTION OF PAS POSITIVE SUBSTANCES IN THE NERVOUS SYSTEM OF THE SENILE DOG ..... *Norman M. Sulkin* 135

AGE DIFFERENCES IN VENTILATORY AND GAS EXCHANGE RESPONSES TO GRADED EXERCISE IN MALES ..... *Arthur H. Norris, Nathan W. Shock, and Marvin J. Yiengst* 145

THE INFLUENCE OF AGE ON PHOSPHATASE ACTIVITY IN THE LIVER OF THE MOUSE ..... *Anita Zorzoli* 156

THE TOTAL NICOTINIC ACID AND PYRIDINE NUCLEOTIDE CONTENT OF HUMAN AORTIC TISSUE ..... *Y. O. Chang, T. J. S. Laursen, and J. E. Kirk* 165

THE RIBOFLAVIN CONTENT OF HUMAN AORTIC TISSUE ..... *R. Schaus, J. E. Kirk, and T. J. S. Laursen* 170

PAGE

STUDIES ON THE SUCCINIC DEHYDROGENASE OF HUMAN AORTIC TISSUE ..... *J. E. Kirk, T. J. S. Laursen, and R. Schaus* 178

THE UTILIZATION OF NUTRIENTS BY DOGS OF DIFFERENT AGES ..... *L. E. Lloyd and C. M. McCay* 182

BOOK REVIEWS 188

Section B—Psychological and Social Sciences, and Social Work and Administration

SEX DIFFERENCES AND EDUCATIONAL INFLUENCES ON A MENTAL DETERIORATION SCALE ..... *Robert J. Howell* 190

PERSONALITY CHANGES WITH AGE: AN ITEM ANALYSIS OF THE MINNESOTA MULTIPHASIC PERSONALITY INVENTORY ..... *Josef Brozek* 194

THE RESPONSE OF OLDER RURAL CRAFTSMEN TO INDIVIDUAL TRAINING ..... *H. F. King* 207

SURVIVING THE FIRST FIVE YEARS OF RETIREMENT ..... *C. A. McMahan and Thomas R. Ford* 212

STANDARDIZING AN INDIVIDUAL INTELLIGENCE TEST ON ADULTS: SOME PROBLEMS ..... *Alexander G. Wesman* 216

BOOK REVIEWS 220

Section C—Organization Section and Index to Current Periodical Literature

ORGANIZATION SECTION 222

INDEX TO CURRENT PERIODICAL LITERATURE 227

Section A—Biological Sciences and Clinical Medicine

AGING PROCESSES IN THE ENDOCRINE GLANDS OF VARIOUS STRAINS OF NORMAL MICE: RELATIONSHIP OF HYPOPHYSEAL ACTIVITY TO AGING CHANGES IN OTHER ENDOCRINE GLANDS ..... *Herman T. Blumenthal* 253

METABOLISM IN THE AGED: THE EFFECT OF STANOLONE ON THE RETENTION OF NITROGEN, POTASSIUM, PHOSPHORUS, AND CALCIUM AND ON THE URINARY EXCRETION OF 17-KETO, 11-OXY, AND 17-HYDROXY STEROIDS IN EIGHT ELDERLY MEN ON HIGH AND LOW PROTEIN DIETS ..... *Donald M. Watkin, Janis M. Parsons, Marvin J. Yiengst, and Nathan W. Shock* 268

DIFFUSION COEFFICIENTS OF VARIOUS SOLUTES FOR HUMAN AORTIC TISSUE. WITH SPECIAL REFERENCE TO VARIATION IN TISSUE PERMEABILITY WITH AGE ..... *J. E. Kirk and T. J. S. Laursen* 288

DIFFUSION COEFFICIENTS OF CARBON DIOXIDE AND GLUCOSE FOR A CONNECTIVE TISSUE MEMBRANE FROM INDIVIDUALS OF VARIOUS AGES ..... *T. J. S. Laursen and J. E. Kirk* 303

LACK OF ADAPTATION TO LOW OXYGEN PRESSURE IN AGED ANIMALS ..... *E. Flückiger and F. Verzár* 306

THE EFFECT OF AGE UPON THE RELATIVE GONADAL ADRENOCORTICAL ACTIVITY OF THE MALE ..... *Sidney Pearson and Thomas H. McGavack* 312

THE ELECTROENCEPHALOGRAM OF AGED PATIENTS WITH CARDIAC AND CEREBRAL VASCULAR DISEASE ..... *W. D. Obrist and L. E. Bissell* 315

Section B—Psychological and Social Sciences, and Social Work and Administration

THE PREVALENCE OF MANIFEST ATHEROSCLEROSIS AMONG RANDOMLY CHOSEN ITALIAN AND JEWISH GARMENT WORKERS ..... *Frederick H. Epstein and Ernest P. Boas* 331

THE DISTRIBUTION ACCORDING TO AGE OF A PSYCHOLOGIC MEASURE DEPENDENT UPON ORGANIC BRAIN FUNCTIONS ..... *Ralph M. Reitan* 338

THE CHANGING AGE DISTRIBUTION OF PILOTS HOLDING FIRST CLASS MEDICAL CERTIFICATES ..... *Clair R. Spealman and Paul T. Bruyere* 341

JOBS FOR THOSE OVER SIXTY-FIVE ..... *Harvey C. Lehman* 345

BOOK REVIEWS 358

Section C—Organization Section and Index to Current Periodical Literature

INDEX TO CURRENT PERIODICAL LITERATURE 360

VOLUME 10 OCTOBER 1955 NUMBER 4

Section A—Biological Sciences and Clinical Medicine

PAGE

COLLAGEN AND ELASTIN IN CONNECTIVE TISSUE ..... *D. A. Hall, M. K. Keech, R. Reed, H. Saxl, R. E. Tunbridge, and M. J. Wood* 388

STUDIES OF GROWTH THROUGHOUT THE LIFESPAN IN JAPANESE: GROWTH AND SIZE OF NAILS AND THEIR RELATIONSHIP TO AGE, SEX, HEREDITY, AND OTHER FACTORS ..... *James B. Hamilton, Harumi Terada, and Gordon E. Mestler* 401

BLOOD PRESSURE AND HEART SIZE IN AGING RATS ..... *Benjamin N. Berg and Charles R. Harmison* 416

THE ELECTROCARDIOGRAM IN AGING RATS ..... *Benjamin N. Berg* 420

ALTERATIONS IN DARK ADAPTATION AS A FUNCTION OF AGE ..... *Ross A. McFarland and M. Bruce Fisher* 424

AGE DIFFERENCES IN FINGER, JAW, AND FOOT REACTION TIME TO AUDITORY STIMULI ..... *James E. Birren and Jack Botwinick* 429

SPEED OF RESPONSE AS A FUNCTION OF PERCEPTUAL DIFFICULTY AND AGE ..... *James E. Birren and Jack Botwinick* 433

AGE DIFFERENCES IN STARTLE REACTION TIME OF THE RAT TO NOISE AND SHOCK ..... *James E. Birren* 437

THE EFFECT OF AGE AND SEX ON THE DURATION OF HEXOBARBITAL ANESTHESIA IN RATS ..... *E. Streicher and J. Garbus* 441

BOOK REVIEWS 445

Section B—Psychological and Social Sciences, and Social Work and Administration

AGE AND PERFORMANCE OF TWO WORK GROUPS ..... *Howard Maher* 448

RESEARCH PROBLEMS IN GERONTOLOGY ..... *Franklyn N. Arnhoff* 452

BOOK REVIEWS 457

Section C—Organization Section and Index to Current Periodical Literature
Author Index to Current Periodical Literature, Index to Volume 10

ORGANIZATION SECTION: PROGRAM OF THE EIGHTH ANNUAL SCIENTIFIC MEETING OF THE GERONTOLOGICAL SOCIETY, INC. 459

ABSTRACTS OF SCIENTIFIC PAPERS TO BE PRESENTED 467

INDEX TO CURRENT PERIODICAL LITERATURE 478

AUTHOR INDEX TO CURRENT PERIODICAL LITERATURE 511

INDEX TO VOLUME 10 524